

INDUSTRIAL RELIEF VALVE (BRASS) 1/4" - 1/2" NPT 10 - 750 Psig (0.69 - 51.7 Bar)

Description

The Generant Series Brass IRV, Industrial Relief Valve is a spring reference over pressure protection device. The valve can be ordered with set pressures ranging from 10 to 750 Psig (0.69 to 51.7 Bar) and comes factory preset and permanently locked. Relief pressure cannot be altered or adjusted in the field. Seat and poppet geometry combined with optimized spring ranges provide high flow rates with minimum pressure accumulation. Relief pressure can be discharged to atmosphere or to a downstream connection. For severe service applications and set pressures above 50 Psig (3.45 Bar), specify optional PTFE seals.

Features

- Supplied Factory Preset Set and Permanently Locked for **Tamper Proof Service**
- 100% Factory Tested for Leakage, Crack and Reseal Performance
- High Flow Capacity and Excellent Reseal Performance
- Discharge to Atmosphere or Inline Piping Configurations
- Optional Deflector Cap available for Diverting Exhausted Gas to Atmosphere
- Available Cleaned and Packaged for Oxygen Service



Series IRV

FKM and Fluorosilicone: 10 - 750 Psig (0.69 to 51.7 Bar) PTFE and PCTFE: 50 - 750 Psig (3.45 to 51.7 Bar)

Factory Set Tolerance: +/- 5% of Specified Pressure

Zero Leakage to 95% of Set Pressure

Full Rated Flow @ 110% of Set Pressure, unaffected by up to 10% Back Pressure

Temperature Rating: -320° F to 375° F (-196° C to 190° C)

based on seal material (see how to order)

Technical Data

Set Pressure Range:

Reseal: 90% of Set Pressure

PTFE seals 80% of Set Pressure

Lubricant: Krytox®

R R A S

Materials of Construction

Component	Material
Body, Poppet, Seat Rivet, Spring Retainer, In-Line Adapter*	CDA 360 Brass, ASTM B16
Adjustment Spring	302 or 17-7 PH Stainless Steel, ASTM A313
Seals	FKM, PTFE, PCTFE, Fluorosilicone

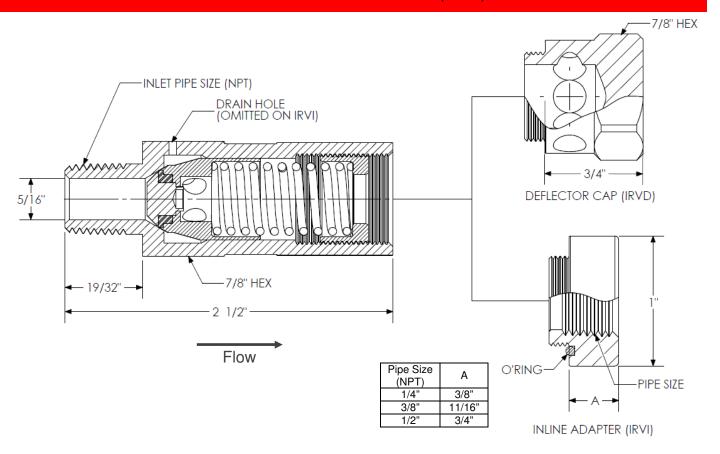
^{*}In-line Adapters Utilize FKM O'Ring Seals



Series IRVI



INDUSTRIAL RELIEF VALVE (BRASS)

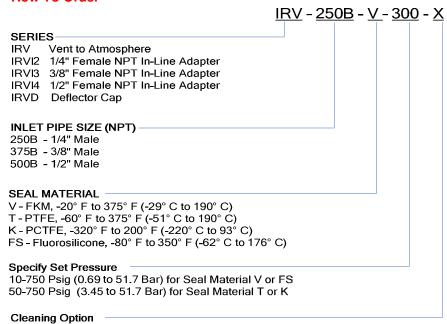


Flow Data*

Set Pressure Range (Psig)		Discharge Coefficient
From	To	Kd
10	28	0.59
29	45	0.59
46	62	0.59
63	89	0.54
90	130	0.42
131	180	0.35
181	275	0.25
275	400	0.12
401	615	0.18
616	750	0.14

^{*}Orifice Diameter 0.312

How To Order



Krytox® is a registered trademark of DuPont.
PROPER COMPONENT SELECTION – When specifying a component, the total system design must be considered to ensure safe and trouble-free performance. Intended component function, materials compatibility, pressure ratings, installation, environment and maintenance are the responsibility of the system designed

X - Clean and Packaged for Oxygen Service



